Claims

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- A support structure for a mobile communications device comprising a 1 dampening mechanism to dampen the insertion of the mobile 3 communications device into the support structure wherein the dampening mechanism comprises a geared arrangement to control the speed of insertion of the mobile communications device into the support structure. 5
- A support structure as claimed in claim 1, wherein the support structure 1 2. comprises a data/power connection means and the support structure is 2 arranged such that the geared arrangement controls the speed of 3 mating/withdrawal of the data/power connections means with a respective 4 5 data/power connection means of a mobile communications device.
- 1 3. A support structure as claimed in claim 1, wherein the support structure 2 extends in the vertical plane to support the mobile communications device in an upright configuration. 3
- A support structure as claimed in claim 1, wherein the support structure 1 comprises a data/power connection means and wherein the support structure 2 3 is arranged such that the geared arrangement guides the mating/withdrawal 4 of the respective connection means.
- A support structure as claimed in claim 1, wherein the support structure 1 2 comprises a platform arranged to engage with mobile communications device and move into/out of the support structure, and wherein the geared 3 arrangement is arranged to control the in/out movement of the platform. 4
- 1 6. A support structure as claimed in claim 5, wherein the support structure is arranged to allow the insertion of the whole of the platform into the support 2 3 structure.
- A support structure as claimed in claim 5, wherein the platform is 1 7. arranged to protect the data/power connection means. 2

- 8. A support structure as claimed in claim 7, wherein the support structure
 comprises data/power connection means located proximal to the platform to
 allow controlled mating between respective connection means upon insertion
- 4 of the platform into the support structure.
- 1 9. A support structure as claimed in claim 8, wherein the connection
- 2 means is contained within the support structure housing to allow access by
- 3 the connection means of a mobile communications device when the mobile
- 4 communications device is appropriately positioned on the platform, and the
- 5 platform comprises an orifice into the housing to allow mating of the
- 6 connection means of the mobile communications device with the support
- 7 structure connection means.
- 1 10. A support structure as claimed in claim 9, wherein the platform is
- 2 arranged to support the base of a mobile communications device.
- 1 11. A support structure for a mobile communications device comprising a
- 2 dampening mechanism to dampen the insertion of the mobile
- 3 communications device into the support structure wherein the dampening
- 4 mechanism comprises a geared arrangement to control the speed of insertion
- 5 of the mobile communications device into the support structure, and wherein
- the geared arrangement comprises a rack arranged to engage with a gear
 wheel to allow controlled translational movement of the dampening
- 8 mechanism.
- 1 12. A support structure as claimed in claim 11, wherein the platform
- 2 comprises the rack arranged to engage with a gear wheel attached to a fixed
- 3 position on the support structure.
- 1 13. A support structure as claimed in claim 11, wherein movement of the
- 2 platform is arranged to be guided by guide pins.
- 1 14. A support structure as claimed in claim 13, wherein the support
- 2 structure comprises one or more channels arranged to house a guide pin.

- 1 15. A support structure as claimed claim 14, wherein the platform is
- 2 arranged to be biased between the in and out positions by biasing means.
- 1 16. A support structure as claimed in claim 13, wherein one or more of the
- 2 guide pins are encircled by one or more springs.
- 1 17. A support structure as claimed in claim 16, wherein the biasing means
- 2 comprises one or more springs.
- 1 18. A support structure as claimed in claim 16, wherein the biasing means
- 2 comprises one or more flexible lugs arranged to flex upon compression to
- 3 store up compressive energy which is subsequently released by deflexion.